

# *American Society for Testing Materials* BULLETIN

I S S U E D



B I M O N T H L Y

*Review of Annual Meeting*

*New Officers*

*Dudley Medalist*

*Prize Awards Established in Tech-  
nical Schools*

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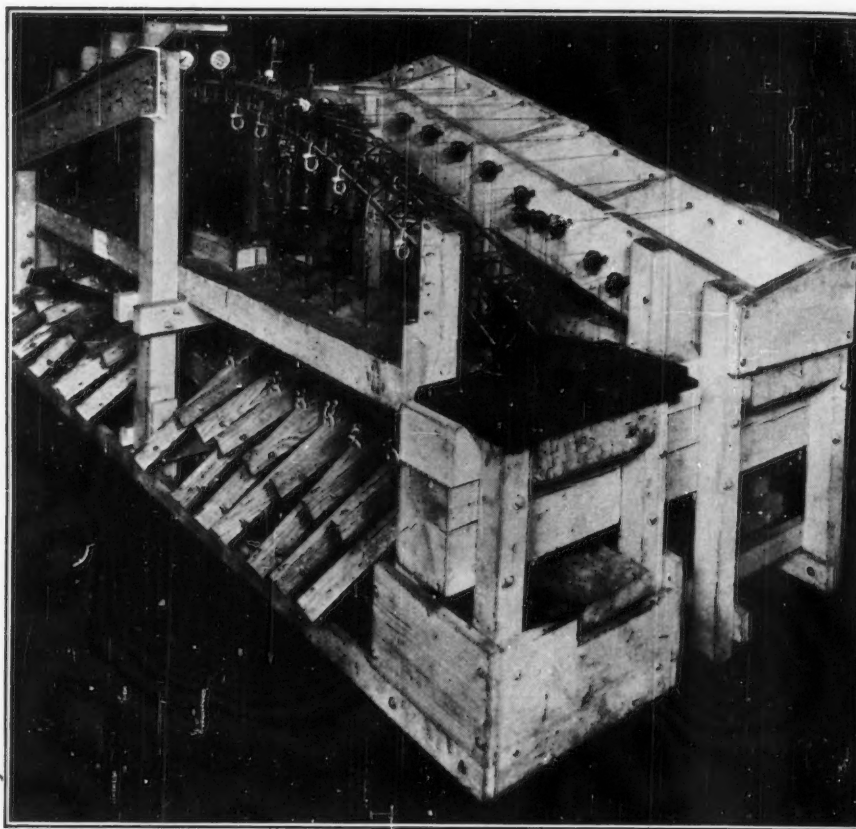
*Committee on Spectrographic Analy-  
sis Organizes*

**July, 1932**



**ENGINEERS' CLUB BUILDING  
1315 SPRUCE ST., PHILADELPHIA**

# ... TESTING A BRIDGE



*before it was built*

**P**IONEERING in the realm of the impossible—Southwark many times has offered the means of blazing new trails in scientific endeavor.

One able example was the designing of the Kill Van Kull span, the longest arch span in the world, crossing New York Harbor from Bayonne, N. J., to Port Richmond, Staten Island.

Before a single member of the span was assembled—when the project was still on the drawing board—an exact scale model of the proposed central span was constructed from engravers' brass. As a final check of the intricate mathematical calculations used in this span before the many tons of steel were actually fabricated, this miniature model was ingeniously

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SOUTHWARK DIVISION  
PHILADELPHIA, PA.

*Pacific Coast Representatives: The Pelton Water Wheel Co., San Francisco*



arranged so that it could be subjected to loads and stresses simulating those the finished span was expected to encounter. One type of instrument of large importance in the minute measurements of movement in this model was the Huggenberger Tensometer.

The scope of Southwark mechanical testing instruments and equipment knows no bounds. From the largest universal testing machine in the world to diminutive devices that may be held in the palm of the hand—Southwark instruments may be found in the laboratories of leading technical schools, research institutes, government bureaus and progressive manufacturers. They may be found in the field—testing pipe, dams, bridges, power line towers, railroad cars, ships and aircraft while in motion, etc. Everywhere they are performing an almost countless number of vital services to Industry, Transportation, Engineering and Research.

That is why, throughout the world, Southwark represents the greatest assemblage of experience, engineering talent and manufacturing resources ever devoted to the development of testing equipment.

# American Society for Testing Materials



## BULLETIN

ENGINEERS' CLUB BUILDING

1315 SPRUCE STREET

PHILADELPHIA, PA.

NUMBER 57

JULY 30, 1932

### Features of Thirty-fifth Annual Meeting

#### Outstanding Papers and Reports Presented

THE success of an annual meeting of the Society is made up of a great many factors—technical sessions, committee meetings, sustained interest on the part of those attending, contributions to new knowledge and research developments, standards' progress and the like. From the standpoint of each of the many factors which contribute to what may be called a "successful" meeting, the thirty-fifth one, held in Atlantic City this year, can rightly be called a "successful" one, even though the attendance was considerably below normal. The total registration was 674. The many favorable comments on the meeting can be attributed largely to the strong technical program and the many important committee meetings held.

It is quite impossible to state which session of the meeting was preeminent. The sessions in which the Symposium on Steel Castings was held, the Textile session, those covering the non-ferrous field, the effect of temperature on metals and corrosion and fatigue of metals were featured by many interesting technical papers and important committee reports.

The Symposium on Steel Castings, comprising two sessions on Tuesday, was sponsored jointly by the American Foundrymen's Association and the Society. Much of the success of this Symposium should be credited to the efforts of W. C. Hamilton, chairman of the advisory committee in charge of the Symposium and his fellow committee members. Ten papers were presented and each elicited much written and oral discussion. The importance of cooperation between designer and foundryman was emphasized by several of the authors and discussers and

stress was placed on the care which must be used in setting up specifications.

The seven papers in the session on Textile Materials, sponsored by Committee D-13, brought out a wealth of data which is of decided value in this field. Papers covered manila rope, enzyme action, atmospheric control, asbestos textiles and rayons. A cotton fiber duplex sorter and a colorimeter for testing the color of cotton were also described.

The number of papers and reports covering various phases

of the non-ferrous metals field was unusually large. Papers on the impact value of monel metal, the physical properties of cast red brass, mechanical properties of white-metal bearing alloys at different temperatures and the preparation of lead alloy sheath for microscopic examination were outstanding. Committee B-3 on Corrosion of Non-Ferrous Metals and Alloys submitted a most valuable report in which the members collaborated to give outlines of procedure and critical discussion of the several types of laboratory corrosion tests now in use.

The results of the investigation of embrittlement of hot-galvanized structural steel, sponsored at Battelle Memorial Institute by the Society, were reported in an extensive paper. The main cause of embrittlement was reported to be due to the severe cold working steel undergoes when bolt holes are punched. The severity of the punching operation depends on the thickness of the stock and in thin and medium sized stock no serious embrittlement is to be expected. In heavy sizes,  $\frac{3}{4}$  in. thick and over, drilling or reaming bolt or rivet holes entirely removes any danger from embrittlement.

#### New Officers



PRESIDENT CLOYD M. CHAPMAN



VICE-PRESIDENT W. H. BASSETT



In the round table discussion on the "Acquisition of Good Data," which opened the meeting, were given several informal papers pointing out to the members the importance of applying statistical methods to analyses of research results and other data. Two formal papers were presented in subsequent sessions, one pointing out how control analysis can be applied to the quality of cambric tape; the other involved controlled data from an immersion test.

Important new developments in testing machines and ingenious new pieces of apparatus used in research were the subject of several papers. A new automatic extensometer, and an electric strain meter for use in measuring strains in mass concrete were described. A very ingenious set-up for the testing of wire rope was outlined.

It is not possible to further delineate the many other papers and reports which contributed so much to our knowledge in many fields such as the ferrous metals, petroleum products, cements, ceramics, etc. Members who wish to have a complete picture of the meeting can gain no better one than is found in the Summary of Proceedings accompanying this BULLETIN. Matters referred to letter ballot as a result of the meeting, and newly approved tentative standards, are listed in this BULLETIN.

#### A.S.T.M. Dinner

The informal dinner on Wednesday evening was well attended and was a thoroughly enjoyable event. Past-President G. H. Clamer acted as toastmaster. His introduction of President Clements was very appropriate since he vividly described the setting of a meeting which took place in Altoona many years ago. The participants were Mr. Clamer, President Clements and the first president of the Society, Charles B. Dudley. The office where this meeting was held was one of the first testing laboratories in America.

The seventh award of the Dudley Medal was made at the dinner to C. A. Menzel for his outstanding paper given at the 1931 annual meeting on "Tests of Fire Resistance and Stability of Walls of Concrete Masonry Units." A life sketch of the winner appears in another section of this BULLETIN.

The report of the tellers appointed to canvass the ballot on election of officers was presented by L. W. Olson. This canvass showed that 835 legal ballots had been cast and the officers were declared unanimously elected.

The new President and the Vice-Presidents were called upon and responded appropriately.

In recognition of the thirtieth anniversary of the Society's incorporation, an anonymous donor presented the Society with a silver water pitcher. A short note accompanied the pitcher:

"A member, friend and admirer of the American Society for Testing Materials feels that, in recognition of her thirtieth anniversary a token of esteem in the shape of a gift is most fitting. The gift sent is a mark, not a measure of the donor's esteem.

"May she have many more years of busy and useful life. With the past as a criterion for the future, we can look forward with confidence to healthy growth, increase in usefulness and a greater desire for service, which has been the motivating principle of her life and work."

#### Presidential Address

A noteworthy address by President Clements climaxed the events following the dinner. He spoke on "Research and the Society." He said in part, "A continual search for new knowledge—that must be our objective in the A.S.T.M. Standardization work carries a great peril, which is mental in

character. Let us standardize materials and processes, but be very careful not to standardize our minds. Standardization of ideas means no progress. Standardization must be the servant and not the master.

"One of my main objectives has been the cementing of finer and better relationships with our sister societies. Marked advance in such relationships has resulted this particular year. Duplication of effort and the development of conflicting specifications are undesirable, for they lead to confusion. We stand ready to be of service wherever possible. We should work with folks and not entirely for folks.

"Continued prosperity is based on new discoveries and achievements, the result of research and invention. Research and education can never be overdone, for they are both non-consumable activities. And furthermore they greatly tend to advance civilization. We neglect them at our peril. So it behooves our Society to pin its faith to the continual search for and the dissemination of new knowledge."

#### Action on Proposed Standards

Reports were presented by 43 standing committees of the Society and 9 research and sectional committees, outlining their activities during the year. As a result of the action of the Society on the recommendations contained in these committee reports, 41 new tentative specifications and methods of tests were accepted for publication as tentative; revisions of 27 tentative standards and tentative revisions of 44 standards were also approved. Also, as mentioned elsewhere in this BULLETIN, the revision of 6 existing standards and the advancement to standard of 1 tentative standard was approved for reference to letter ballot of the Society for adoption. The withdrawal of 3 standards and 2 tentative standards was approved. As a result, the Society now has 441 standards and 220 tentative standards, making a total of 661.

#### Edgar Marburg Lecture

The Seventh Edgar Marburg Lecture was presented on Wednesday afternoon by Prof. Hugh S. Taylor, Head of the Chemistry Department, Princeton University. His subject was "Fundamentals in the Problem of Resistance to Deterioration." He outlined the tremendous strides made by scientists in the determination of speed of chemical reactions, which is a major problem in understanding causes for deterioration. In his opinion, chemists must concentrate on the study of chemical changes which promote deterioration and must investigate and discover inhibitors. Tremendous economic savings are the goal.

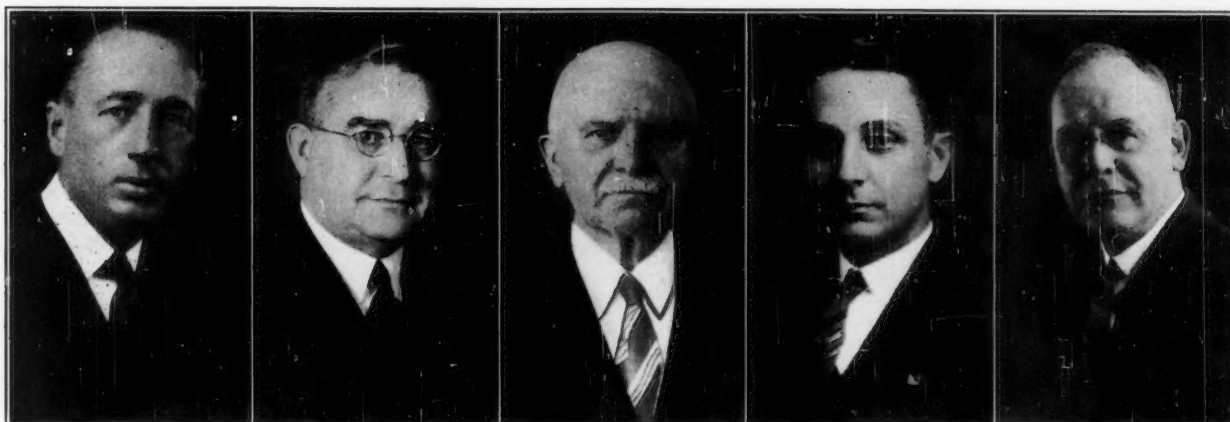
#### Entertainment Features

The Entertainment Committee was headed by Prof. T. R. Lawson, Vice-President, who also headed the Reception Committee. A. R. Small was in charge of the golf tournament, held on Thursday afternoon. The field of 20 entries was again led by H. G. Farmer, Technical Service Director, Universal Atlas Cement Co., Chicago, and he retains for another year the A.S.T.M. Championship cup. Other prize winners were E. D. Boyer, J. G. Bragg, J. H. Chubb, J. J. Crowe, D. W. Mulford and W. B. Price.

The annual dance and smoker, which followed the dinner on Wednesday evening was an enjoyable affair. The customary dinner of Committee D-2 on Petroleum Products and Lubricants was held on Tuesday. T. A. Boyd, Head, Fuel Section, General Motors Research Laboratories, and new chairman of the committee was the guest of honor.



## New Members of Executive Committee



H. A. GARDNER

J. O. LEECH

J. C. RAMAGE

J. T. MacKENZIE

H. S. VASSAR

## New Officers

The recent election of officers, as announced at the annual meeting, resulted in the unanimous election of Mr. Cloyd M. Chapman as President (1932 - 1933), Mr. William H. Bassett as Vice-President (1932 - 1934) and the following as members of the Executive Committee (1932 - 1934): Messrs. H. A. Gardner, J. O. Leech, J. T. MacKenzie, J. C. Ramage and H. S. Vassar.

## President

**Cloyd M. Chapman**, the new President, is a consulting engineer with offices in New York City. He received his technical education at Cornell University, where he took the mechanical engineering course, Class of 1898. He served as Engineer Officer in the Navy during the Spanish-American War. At its close, he was employed by Edison as assistant in his private laboratory; later doing mining exploration work in Mexico, Canada and Australia for Edison. From 1905 until 1920, he was employed by Westinghouse, Church, Kerr and Company, responsible for design and construction work and was engineer of tests. Since 1920 he has been retained as consulting engineer by several companies.

## Vice-President

**William H. Bassett**, the newly elected Vice-President, is Metallurgical Manager of The American Brass Co. Mr. Bassett received the B.S. Degree from Massachusetts Institute of Technology, Class of 1891. He was chemist and superintendent of the Popes Island Manufacturing Co., New Bedford, for five years. Later he was chief chemist, Newark Works, New Jersey Zinc Co. He became chief chemist and metallurgist of The American Brass Co. in 1913, was made technical superintendent and metallurgist in 1912, and in 1930 assumed his present office. Mr. Bassett is Past-President, American Institute of Mining and Metallurgical Engineers.

## Members of Executive Committee

**H. A. Gardner**, Chemical Engineer, The Institute of Paint and Varnish Research, Washington, D. C., is a graduate of Brown University. He is Director, Scientific Section, Paint Manufacturers' Association of United States and National Varnish Association, and is Vice-President and Director, Institute of Paint and Varnish Research; also chemist-at-large, Small Arms Division, Ordnance Department, U. S. Army.

**J. O. Leech**, Assistant Metallurgical Engineer, Carnegie Steel Co., Pittsburgh, Pa., was first employed in the Inspection Department, Carnegie-Phipps and Co. in 1890. Later he was appointed manager of the Bureau of Inspection and Tests, Carnegie Steel Co. He was advanced to his present position in February, 1932. He has been Secretary of the Association of American Steel Manufacturers Technical Committees since 1918 and has done a great deal to promote the use of standards in the metallurgical industries.

**J. T. MacKenzie** was analyst from 1912 to 1914; engaged in research work, 1915; and since 1915 has been chief chemist and metallurgist of the American Cast Iron Pipe Co. He has made several valuable contributions to the technical literature dealing with cast iron. A graduate of University of the South, he was honored with the Degree of Doctor of Science in 1930.

**J. C. Ramage**, Engineer of Tests, Southern Railway System, Alexandria, Va., received the M.E. Degree from Cornell University in 1890. He was in the Test Department of the Baltimore & Ohio Railroad from 1891 until 1895. He entered the employ of the Southern Railway Co. in 1895 in the Test Department; later became engineer of tests, his present position. He has been a member of the Society for 28 years.

**H. S. Vassar**, Laboratory Engineer, Public Service Electric and Gas Co., Irvington, N. J., became employed in the engineering and operating departments of the company with which he is now affiliated in 1903, the year of his graduation from Pratt Institute, Brooklyn. At present he is in charge of the testing laboratory. In addition to his membership in the A.S.T.M., he holds membership in several other societies.



## Sun Oil and Western Electric Sustaining Members

The Sun Oil Co., Philadelphia, and the Western Electric Co., Chicago, have become Sustaining Members of the Society. This class of membership, it will be recalled, was created last year to enable members to increase their support of Society work to a degree more nearly commensurate with its intrinsic value to the members. Other companies which have become Sustaining Members have been announced in previous BULLETINS.

## AMERICAN SOCIETY FOR TESTING MATERIALS BULLETIN

*Issued Bi-Monthly*

Engineers' Club Building, 1315 Spruce St., Philadelphia, Pa.

### *President*

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### *Vice-Presidents*

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W. H. BASSETT

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C. L. WARWICK

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G. C. D. LENTH

K. B. COOK

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O. L. MOORE

J. B. JOHNSON

J. C. RAMAGE

J. O. LEECH

H. S. VASSAR

### *Past-Presidents*

T. D. LYNCH

K. G. MACKENZIE

F. O. CLEMENTS

### *Assistant Treasurer*

J. K. RITTENHOUSE

### *Assistant Secretary*

R. E. HESS

Number 57

July 30, 1932

## The Society To-Day

A QUESTION naturally in the minds of many members was voiced at the recent annual meeting: "What effects are present-day conditions having upon the Society?" The Executive Committee answered this question in a general way in its annual report. The immediate effect is a net loss in membership of about 8 per cent for the year ending June 1, which while materially reducing the Society's income is not considered unduly large in view of present industrial conditions. Income from sales of publications has kept up remarkably well. Fortunately, the Society was able to supplement this year's income with a surplus from last year. Current operating expenses have been reduced in a number of ways, including reduction of the budget for salaries, so that the work of the Society is being carried on without curtailment. Splendid progress in both research and standardization activities was made during the year, as may be seen from articles in this BULLETIN and from the accompanying Summary of the Proceedings. Substantially all reports and papers are being published in full. All the regular and special publications will be issued with the exception of the 1932 Year Book. In its place, as announced on page 5, will be published for distribution to all members requesting it a Supplement to the 1931 Year Book.

As Doctor Clements well said in his Presidential Address, "The effectiveness of our work has not been curtailed in the slightest degree by our adherence to sound economic principles."

There is no doubt that our work is of undiminished value in these times of economic stress; were any further demonstration needed, the remarkable attendance at committee meetings at Atlantic City bears witness to that fact. With full appreciation of this, and the realization that the Society is "carrying on" with undiminished vigor, we can face the future confident that it holds for us still greater opportunities for accomplishment and service.

## Student Prize Plan Developed

### Awards Established in Five Schools

In the March BULLETIN announcement was made of the award of student memberships in the Society to six students at the University of Washington who won a contest to determine the most economical design for a certain type of concrete. Several members of the Society on learning of this interesting plan, have established student membership prize awards in five additional technical schools. In general these awards are to be made to meritorious students in the junior or senior years who have done outstanding work in courses having to do with materials of construction.

In addition to the University of Washington, prize awards have been established in departments of the following technical schools:

Massachusetts Institute of Technology.....	5
University of Pennsylvania.....	5
Cornell University.....	3
Rensselaer Polytechnic Institute.....	5
Ohio State University.....	5

These respective awards are being sponsored by Arthur W. Carpenter, C. L. Warwick, J. B. Johnson, G. C. D. Lenth and F. O. Clements.

### Membership Means Much to Student and Society

The annual dues for Student Membership in the A.S.T.M. are purposely made quite nominal, being \$1.50 with no entrance fee. Membership brings the student one of two books containing a selection of A.S.T.M. specifications and methods of test—each about 200 pages—of fundamental importance (1) in the general field of engineering or (2) specializing in chemistry and chemical engineering and metallurgy. The student also receives the Year Book of the Society, preprints of all committee reports and papers published for the annual meeting, the A.S.T.M. BULLETIN and in addition the privilege of subscribing to any of the other publications of the Society at special prices. Thus a Student Membership in the Society is intrinsically of far more value than is represented by the dues.

The membership is of unquestioned value to the student and, of course, it means much to the Society to have the young engineer acquainted at first hand with the value that the Society can be to him in his work as it may deal with either the production or use of the materials of engineering. Many future members of the Society are the students of today. Interested in his college days in A.S.T.M. work and learning of its importance to industry, his interest will be sustained in later years. While the value of A.S.T.M. to industry today is being clearly recognized by an increasing number, every step must be taken to widen this recognition.

### Extension of Prize Award Plan

Other members of the Society than those who are sponsoring the awards listed above have mentioned that they should like to institute one or more prize awards of A.S.T.M. student membership in their alma maters. Information concerning Student Membership will be sent to any members interested.

The plan has been commended by all of the faculty members consulted and it is hoped will appeal to many of the Society members. Even though prize awards may have been instituted in a college in which a member is interested, there are many courses to which additional awards might apply most appropriately.

## Who Is A.S.T.M.?

### A Note from President Chapman

Responding to a suggestion (?) from the Secretary of the Society that I say something to the members occasionally in the BULLETIN, I am happy to do so.

What I shall say to you may not be original, but it will at least be brief. You may have thought the same things yourself, or you may have heard others say them. I believe they are truths, and few truths are new. If you feel inclined to comment on them one way or another your letters will be welcomed and will be answered, if I can think of an answer.

\* \* \* \* \*

Not infrequently one hears a member remark, "Why does not A.S.T.M. do this or do that?" or, "I should think THEY would do so and so." I wonder whom he means when he refers to A.S.T.M. in that manner? Does he have an idea that A.S.T.M. is some impersonal person who can do or refrain from doing any one of a multitude of things? Does every member realize that he is but *talking to himself* when he speaks of what ought to be done or not done by the Society?

If the member would say, "I think WE should do so and so," he would be recognizing his co-responsibility with every other member. Every member is roughly one four-thousandth part of A.S.T.M. and no member is the minutest fraction more or less of it than another.

So remember when you refer in this manner to A.S.T.M. that you are referring to yourself just as much as to any other individual.

WHO IS A.S.T.M.  
IT IS YOU!

*Cloyd M. Chapman*

■ ■ ■

### Exhibit in Chicago in 1933

An exhibit of testing apparatus and related equipment will be held at the Hotel Stevens in Chicago in 1933, in conjunction with the annual meeting of the Society, during the week of June 26-30. Chief among the factors leading to this decision was the very favorable reception accorded the first exhibit held in 1931, together with the fact that an exhibit will attract a large number of engineers who will be attending the various engineering society meetings being held during the week of the exhibit.

A definite statement of the scope of the exhibit, together with other exhibit plans will be made in the near future.

### 1933 Annual Meeting

The week of June 26-30 was chosen as the most fitting one during which to hold the meeting because of the plans of leading societies to hold their meetings at that time. Plans are being formulated for a general Engineers' Day on Wednesday, June 28, in which it is expected the Society will join. A general visit to the Century of Progress and a formal dinner at the Hotel Stevens will probably be held.

It has been recommended that the technical sessions of the A.S.T.M. meeting begin on Monday, instead of Tuesday, and that arrangements be made to hold some of the committee meetings on Friday and Saturday of the preceding week. This would leave the weekends prior to and following the meeting for social activities.

## C. A. Menzel Awarded Dudley Medal

C. A. Menzel, Associate Engineer, Research Laboratory of the Portland Cement Association, was awarded the Charles B. Dudley Medal for 1932 at the Thirty-fifth Annual Meeting. This medal, commemorating the name of the Society's first president, is awarded annually to the author of a paper presented at the preceding annual meeting, which is of outstanding merit and constitutes an original contribution to research in engineering materials.

Mr. Menzel's paper, which won for him this seventh award of the medal, covered "Tests of Fire Resistance and Stability of Walls of Concrete Masonry Units." It was presented at the 1931 annual meeting in Chicago. The paper presented the principal results of a comprehensive investigation of the fire-resistant and load-carrying properties of approximately 100 walls of concrete masonry units, subjected to standard fire endurance and load tests.

Mr. Menzel received the degree of Bachelor of Science in Mechanical Engineering from the University of Illinois in 1917. Since his graduation he has been largely engaged in research, testing and development work on various building materials and constructions, chiefly with regard to their fire resistance. He served three years at the Forest Products Laboratory, seven years at the Underwriters' Laboratories and has been employed for the past four years in his present position.



C. A. MENZEL

■ ■ ■

### Supplement to Replace 1932 Year Book

As a needed measure of economy, the Executive Committee has decided to issue a Supplement to the Year Book for 1931 in place of the 1932 Year Book. This will include the list of officers, new members not listed in the 1931 Year Book, and the complete personnel of standing committees. With the inclusion of these data, especially the committee personnel which is probably most referred to by the members and most valuable to them, it is felt that the Year Book can be omitted for one year.

The Year Book Supplement will be sent only to those members who request it. The enclosed request card should be filled in and promptly mailed by all who desire a copy.

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### Discussion of Annual Meeting Papers

Written discussion of the papers and reports presented at the recent annual meeting will be received by the Committee on Papers and Publications until September 1. Members are urged to have their discussion in as far in advance of the limiting date as possible.



### Committee on Spectrographic Analysis Formally Organized

The formal organization of the new Committee E-2 on Spectrographic Analysis was consummated at a well attended meeting in Atlantic City, June 23, during the Thirty-fifth Annual Meeting of the Society. Officers were elected and an advisory committee was appointed to steer the committee work.

At the meeting, H. V. Churchill, who had served as temporary chairman pending formal organization, outlined the importance of the work and the rôle of the spectrograph in industry. Fundamentally, it has two major functions: first, as a qualitative tool; second, as a quantitative tool.

As a qualitative tool it is of primary value as an adjunct to other methods of examination. In analytical chemistry it has a definitely recognized field in detecting the presence of most elements. Local analyses by means of a spectrograph present great possibilities to the metallurgist.

Quantitative spectrography depends fundamentally upon the relative intensity of the spectrum lines and means must be devised to measure the relative blackness of photographic plate areas. This must be preceded by a standardization of operating technique.

#### Subcommittee Organization

At the meeting consideration was given to a subcommittee organization and it was decided to proceed at once with the formation of four groups as follows:

*Subcommittee on Apparatus.*—To outline the availability of spectroscopes and spectrographs for particular types of work, with necessary accessory equipment, with laboratory layouts, etc.

*Subcommittee on Fundamental Methods and Technique.*

*Subcommittee on Quantitative Methods.*—To study the applicability of these methods to particular industries or materials.

*Subcommittee on the Accessory Uses of the Spectrograph.*—To study the uses with relation to metallography, corrosion, inspection, etc.

#### Committee Personnel

The officers of Committee E-2 on Spectrographic Analysis are as follows:

Chairman: H. V. Churchill  
Vice-chairman: O. S. Duffendack  
Secretary: C. C. Nitchie

The advisory committee is made up of the above officers and in addition, T. A. Wright and E. E. Schumacher.

The personnel of the committee includes the following:

Aluminum Co. of America, H. V. Churchill, Chief Chemist, Aluminum Research Laboratories, New Kensington, Pa.  
A C Spark Plug Co., D. W. Randolph, Flint, Mich.  
American Brass Co., C. H. Davis, Assistant Metallurgist, Waterbury, Conn.  
American Hard Rubber Co., M. T. Hedges, Butler, N. J.  
American Rolling Mill Co., R. F. Mehl, Middletown, Ohio.  
Baker and Co., Inc., H. E. Stauss, Research Dept., Newark, N. J.  
Bausch & Lomb Optical Co., C. C. Nitchie, Industrial Sales Division, Rochester, N. Y.  
Bell Telephone Laboratories, E. E. Schumacher, New York City.  
The Electric Storage Battery Co., C. A. Hall, Philadelphia, Pa.  
Gaertner Scientific Corp., Samuel Jacobsohn, Chicago, Ill.  
General Electric Co., J. A. Capp, Testing Laboratory, Schenectady, N. Y. (G. J. Steele to be active representative.)  
Hookless Fastener Co., W. L. Hanselman, Chief Inspector, Meadville, Pa.  
R. H. Leach, Manager, Handy & Harman, Bridgeport, Conn.  
The Leeds & Northrup Co., C. Z. Rosecrans, Chief, Mechanical Division, Research Dept., Philadelphia, Pa.  
National Smelting Co., F. H. Emery, Spectroscopist, Cleveland, Ohio.  
The New Jersey Zinc Co., M. L. Fuller, Palmerton, Pa.  
U. S. Bureau of Standards, W. F. Meggers, Chief, Spectroscopy Section, Washington, D. C.  
University of Michigan, O. S. Duffendack, Assistant Professor of Physics, Ann Arbor, Mich.  
T. A. Wright, Secretary and Technical Director, Lucius Pitkin, Inc., New York City.

### New Committee Officers Elected

As a result of the elections of committee officers which take place in the even years, several new officers have been chosen to direct the activities of certain committees. The men thus honored are listed below.

#### COMMITTEE A-1 ON STEEL.

Chairman: H. H. Morgan, Manager, Rail and Fastenings Dept., Robert W. Hunt Co., Chicago, Ill.

Vice-Chairman: H. W. Faus, Engineer of Tests, New York Central Lines, New York City.

Secretary: H. P. Bigler, Secretary, Rail Steel Bar Assn., Chicago, Ill.

#### COMMITTEE A-9 ON FERRO-ALLOYS.

Chairman: J. P. Gill, Metallurgist, Vanadium-Alloy Steel Co., Latrobe, Pa.

#### COMMITTEE B-1 ON COPPER WIRE.

Vice-Chairman: W. H. Bassett, Metallurgical Manager, The American Brass Co., Waterbury, Conn.

#### COMMITTEE B-7 ON LIGHT METALS AND ALLOYS, CAST AND WROUGHT.

Vice-Chairman: Sam Tour, Vice-President, Lucius Pitkin, Inc., New York City.

#### COMMITTEE C-1 ON CEMENT.

Secretary: G. A. Saeger, Consulting Chemical Engineer, St. Louis, Mo.

#### COMMITTEE C-2 ON REINFORCED CONCRETE.

Secretary: D. E. Parsons, U. S. Bureau of Standards, Washington, D. C.

#### COMMITTEE C-3 ON BRICK.

Secretary: LeRoy E. Kern, Consulting Engineer, New York City.

#### COMMITTEE C-7 ON LIME.

Chairman: James R. Withrow, Professor of Chemical Engineering, Ohio State University, Columbus, Ohio.

#### COMMITTEE C-8 ON REFRACTORIES.

Secretary: C. E. Bales, Vice-President, The Ironton Fire Brick Co., Ironton, Ohio.

#### COMMITTEE C-9 ON CONCRETE AND CONCRETE AGGREGATES.

Chairman: R. W. Crum, Director, Highway Research Board, National Research Council, Washington, D. C.

Vice-Chairman: Stanton Walker, Director, Engineering and Research Division, National Sand and Gravel Assn., Washington, D. C.

Secretary: R. R. Litehiser, Chief Engineer, Bureau of Tests, Ohio State Highway Dept., Columbus, Ohio.

#### COMMITTEE C-10 ON HOLLOW MASONRY BUILDING UNITS.

Acting Secretary: F. E. Emery, Engineer and Secretary, Eastern Manufacturers Group, Structural Clay Tile Assn., New York City.

#### COMMITTEE D-1 ON PRESERVATIVE COATINGS FOR STRUCTURAL MATERIALS.

Secretary: M. Rea Paul, Consulting Colorist, National Lead Co., Brooklyn, N. Y.

#### COMMITTEE D-2 ON PETROLEUM PRODUCTS AND LUBRICANTS.

Chairman: T. A. Boyd, Head, Fuel Section, Research Labs., General Motors Corp., Detroit, Mich.

#### COMMITTEE D-4 ON ROAD AND PAVING MATERIALS.

Chairman: H. F. Clemmer, Engineer of Tests and Materials, Engineer Dept., District of Columbia, Washington, D. C.

#### COMMITTEE D-8 ON BITUMINOUS WATERPROOFING AND ROOFING MATERIALS.

Chairman: J. M. Weiss, President, Weiss & Downs, Inc., New York City.

#### COMMITTEE D-11 ON RUBBER PRODUCTS.

Chairman: H. A. Depew, Research Chemist, American Zinc Sales Co., Columbus, Ohio.

#### COMMITTEE D-13 ON TEXTILE MATERIALS.

Vice-Chairman: B. H. Foster, Manager, United States Rubber Co., Textile Section, Passaic, N. J.

Vice-Chairman: J. M. Weaver, Sales Engineer, General Asbestos and Rubber Division of Raybestos-Manhattan, Inc., North Charleston, S. C.

#### COMMITTEE D-18 ON NATURAL BUILDING STONES.

Chairman: W. M. Greig, Masonry Engineer, Drexel Hill, Pa.  
Vice-Chairman: F. Y. Joannes, Architect, New York City.



### Addresses Wanted

Anyone knowing the present addresses of the following members, whose last known addresses are given below, are asked to notify the Secretary-Treasurer:

E. C. Shuman, Research Engineer, Pennsylvania Dixie Cement Corp., 3514 N. Maryland Ave., Milwaukee, Wis.  
Thomas C. Tweedie, 4116 Fifth Ave., Kenosha, Wis.

### Committee Standardization Activities

Supplementing the summaries of standardization work appearing in the annual reports of standing committees there is given below a brief review of new projects in progress or contemplated by the committees which indicates the extensiveness of future committee standardization activities.

The Committee on Steel has under consideration specifications for seamless alloy-steel still tubes and seamless carbon-steel tubes and pipe for gasoline cracking plants.

A few of the important items before the Committee on Wrought Iron include the preparation of specifications for wrought-iron rivets, and for sheets and shapes of wrought iron, and a revision of the plate specifications.

Consideration is being given by the Committee on Cast Iron to the heat treatment of gray cast iron, a subject which is developing rapidly.

The Committee on Magnetic Analysis is proceeding with a survey of the magnetic properties of commercially important steels. It is proposed to collect a representative series of samples and determine their magnetic properties after certain specified heat treatments which will correspond to the treatment given to individual steels in practice.

The Committee on Light Metals and Alloys is continuing the preparation of specifications for the wrought alloys of aluminum and magnesium. During the year the committee anticipates the issuing of specifications for aluminum alloy tubing and aluminum alloy forgings. The committee has also undertaken the preparation of comprehensive data covering the various alloys of aluminum and magnesium. These data will be a survey of the industrial applications of the materials and a compendium of the chemical analyses, physical properties and fabricating qualities of several commercial alloys, and will include data on corrodability of the alloys.

In the Committee on Fire Tests of Materials and Construction, new subcommittees on fire tests of acoustical and similar finishes, and on fire tests of scaffolding are in process of organization. The committee contemplates certain refinements in the Dunlap fire tube test and is considering the crib and timber tests.

The Committee on Refractories is doing excellent work in the comparison of temperature measurements and in the preparation of specifications for refractory insulation. Studies of chemical analysis of basic refractories are also under way.

The subcommittees of Committee D-2 on Petroleum Products and Lubricants are engaged in the development of a method for evaluating crude petroleum; classification of automotive greases, and studies of the flash point of cut-back asphalts and similar materials. A new subcommittee has been organized to perfect the Sligh oxidation test. The Technical Committee on Gasoline is investigating the relation between the gum content of gasoline by various methods and behavior in service. An attempt is also being made to correlate vapor pressure data with vapor-locking characteristics of motor fuels. The Technical Committee on Fuel Oils has under consideration specifications for Diesel fuels. The Technical Committee on Stoddard Solvent is working on a revision of the commercial standard specification.

In the Committee on Coal and Coke the Subcommittee on Pulverizing Characteristics of Coal will conduct experimental work on the comparison of several methods for determining grindability. Investigations will also be made on a test for agglutinating properties of coal and consideration will be given to the use of pyrometric cone powders in standardizing fusibility tests. The friability of coal will be one of the most active problems of a new subcommittee.

Fundamental work is being done on raw cotton in the Textile Materials Committee with an idea of studying the variation in fibers and its relation to spinning utility.

The subcommittee on wool plans a revision of the methods of testing grease wool and allied fibers and the development of tolerances and methods for woolen yarns, cloths and felt. New specifications are under consideration for Nos. 1 and 2 constructions of Holland cloth for use in the tire industry; automotive webbing; shoe tapes; and asbestos roving. Important work is being done on the moisture regain of various fibers and fabrics under standard atmospheric conditions. This work is of fundamental importance and it is hoped that anyone having any data will forward it to the committee.

Studies of accelerated weathering tests are being continued by the Committee on Bituminous Waterproofing and Roofing Materials and may result in proposed methods for roofing. Subcommittees are investigating test methods for bituminous emulsions used for waterproofing and methods of testing bituminous compounds used for sewer pipe joints.

The Committee on Natural Building Stones is engaged in studying accelerated weathering, thermal and fatigue test procedures, in completing a uniform cubing procedure for building stone, and in a study of stone anchorage practice.



### Matters Referred to Letter Ballot

By action of the annual meeting, the Society approved for submission to letter ballot vote of the membership the revision of six existing standards and the advancement of one tentative standard to standard. Detailed information concerning the matters referred to letter ballot is given in the reports of the respective committees issued to the membership in advance of the annual meeting. Revisions in the first three standards in the following list are being submitted for immediate adoption. The revisions in the remaining three standards have been published for a year or more in the *Proceedings* and Book of A.S.T.M. Tentative Standards. Amendments of two articles of the By-laws, referred to in the Executive Committee report and in the Summary of the Proceedings, were also submitted to letter ballot of the Society.

#### AMENDMENTS OF BY-LAWS

*Article I. Members and Their Election:* Revision of Section 4 relating to Student Members.

*Article VII. Dues:* Revision of Section 2 relating to entrance fee for Sustaining Members.

#### REVISIONS OF EXISTING STANDARDS

##### *Standard Specifications for:*

Round and Grooved Hard-Drawn Copper Trolley Wire (B 47 - 30), recommended by Committee B-1.

Bronze Trolley Wire (B 9 - 30), recommended by Committee B-1.

##### *Standard Methods of:*

Testing Cement (C 77 - 30), recommended by Committee C-1.

Test for Distillation of Natural Gas Gasoline (D 216 - 30), recommended by Committee D-2.

Testing Rubber Products (D 15 - 24), recommended by Committee D-11.

##### *Standard Definitions of:*

Terms Relating to Materials for Roads and Pavements (D 8 - 18), recommended by Committee D-4. (Revised definitions of the terms asphalts, bitumens, tars, flux and pitches.)

#### ADVANCEMENT OF TENTATIVE STANDARD TO STANDARD

##### *Standard Methods of:*

Chemical Analysis of Rubber Products (D 297 - 31 T), recommended by Committee D-11.

### New Tentative Standards Approved

The Society approved by action at the annual meeting the publication of 41 new tentative standards which increases the total number of tentative standards to 220. Of the 41 new tentative standards, 18 specifications, 7 methods of test and 1 recommended practice, a total of 26, relate to materials not previously covered by A.S.T.M. standards as follows:

#### *Ferrous Metals:*

- Specifications for Electric-Fusion-Welded Steel Pipe (Sizes 8 in. to but not including 30 in.) (A 139-32 T), submitted by Committee A-1.
- Specifications for Structural Medium Steel (A 140-32 T), submitted by Committee A-1.
- Specifications for Structural Rivet Steel (A 141-32 T), submitted by Committee A-1.
- Specifications for Cast-Iron Culvert Pipe (A 142-32 T), submitted by Committee A-3.
- Recommended Practice for Safeguarding Against Embrittlement of Hot-Galvanized Structural Steel Products and Procedure for Detecting Embrittlement (A 143-32 T), submitted by Committee A-5.
- Specifications for Ferro-Tungsten (A 144-32 T), submitted by Committee A-9.
- Specifications for Low-Carbon Ferro-Molybdenum (A 145-32 T), submitted by Committee A-9.
- Specifications for Molybdenum Salts and Compounds (A 146-32 T), submitted by Committee A-9.

#### *Non-Ferrous Metals:*

- Specifications for Hard-Drawn Copper Transmission Cable (B 87-32 T), submitted by Committee B-1.
- Specifications for Copper Water Tube (B 88-32 T), submitted by Committee B-5.
- Specifications for Aluminum-Copper-Magnesium-Manganese Alloy Bars, Rods and Shapes (B 89-32 T), submitted by Committee B-7.
- Specifications for Magnesium-Base Alloy Sheet (B 90-32 T), submitted by Committee B-7.
- Specifications for Magnesium-Base Alloy Wrought Shapes (Other than Sheet) (B 91-32 T), submitted by Committee B-7.

#### *Refractories:*

- Method of Test for Particle Size of Ground Refractory Materials (C 92-32 T), submitted by Committee C-8.

#### *Paints and Paint Materials:*

- Specifications for Ethylene Glycol Mono Butyl Ether (D 342-32 T), submitted by Committee D-1.
- Specifications for Ethylene Glycol Mono Ethyl Ether (D 343-32 T), submitted by Committee D-1.
- Specifications for Acetate Ester of Ethylene Glycol Mono Ethyl Ether (90 to 91 per cent Grade) (D 344-32 T), submitted by Committee D-1.
- Specifications for Acetate Ester of Ethylene Glycol Mono Ethyl Ether (95 to 96 per cent Grade) (D 345-32 T), submitted by Committee D-1.
- Method of Test for Comparative Hiding Power of Paints (D 346-32 T), submitted by Committee D-1.

#### *Road Materials:*

- Methods of Chemical Analysis of Calcium Chloride (D 347-32 T), submitted by Committee D-4.

#### *Coke:*

- Method of Sampling Coke for Analysis (D 348-32 T), submitted by Committee D-5.

#### *Timber Preservatives:*

- Volume and Specific Gravity Correction Tables for Creosote, Creosote Coal-Tar Solution (up to 50 per cent Tar) and Coal Tar (Coke-Oven Tars) (D 349-32 T), submitted by Committee D-7.

#### *Electrical Insulating Materials:*

- Methods of Testing Laminated Tubes Used in Electrical Insulation (D 350-32 T), submitted by Committee D-9.
- Methods of Test for Grading Natural Mica According to Size, Commercial Quality and Thickness (D 351-32 T), submitted by Committee D-9.

#### *Rubber Products:*

- Specifications for Insulated Wire and Cable: Performance Rubber Compound (D 352-32 T), submitted by Committee D-11.

#### *Textile Materials:*

- Specifications for Tolerances and Test Methods for Tubular Sleeving and Braids (D 353-32 T), submitted by Committee D-13.

An unusually large number of the new tentative standards prepared this year by the standing committees were issued as revisions of existing standards. The following 15 specifications and methods of test, with the three exceptions noted, were approved as tentative to supersede when adopted present standards having corresponding titles and serial designations:

- Specifications for Lap-Welded and Seamless Steel and Lap-Welded Iron Boiler Tubes (A 83-32 T), submitted by Committee A-1.
- Specifications for Gray-Iron Castings (A 48-32 T), submitted by Committee A-3 to supersede the present Standard Specifications for Gray-Iron Castings (A 48-29) and also the Standard Specifications for High-Test Gray-Iron Castings (A 88-31).
- Specifications for Zinc-Coated (Galvanized) Iron or Steel Telephone and Telegraph Line Wire (A 111-32 T), submitted by Committee A-5.
- Specifications for Zinc-Coated (Galvanized) Iron or Steel Tie Wires (A 112-32 T), submitted by Committee A-5.
- Specifications for Zinc-Coated (Galvanized) Iron or Steel Farm-Field and Railroad Right-of-Way Wire Fencing (A 116-32 T), submitted by Committee A-5.
- Specifications for Zinc-Coated Iron or Steel Chain-Link Fence Fabric Galvanized After Weaving (A 117-32 T), submitted by Committee A-5.
- Specifications for Zinc-Coated (Galvanized) Iron or Steel Barb Wire (A 121-32 T), submitted by Committee A-5.
- Specifications for Zinc-Coated (Galvanized) Iron or Steel Wire Strand (Cable) (A 122-32 T), submitted by Committee A-5.
- Methods of Test for Magnetic Properties of Iron and Steel (A 34-32 T), submitted by Committee A-6.
- Specifications for Malleable Iron Castings (A 47-32 T), submitted by Committee A-7.
- Methods of Chemical Analysis of Ferro-Tungsten and Ferro-Molybdenum (A 104-32 T), submitted by Committee A-9 to be incorporated when finally adopted in the present Standard Methods of Chemical Analysis of Ferro-Alloys (A 104-27).
- Specifications for Clay Sewer Pipe (C 13-32 T), submitted by Committee C-4.
- Methods of Testing Gypsum and Gypsum Products (C 26-32 T), submitted by Committee C-11.
- Method of Sampling Coal by Ball-Mill Method (D 271-32 T), submitted by Committee D-5 to be incorporated when finally adopted in the present Standard Methods of Laboratory Sampling and Analysis of Coal and Coke (D 271-30).
- Specifications for Friction Tape for General Use for Electrical Purposes (D 69-32 T), submitted by Committee D-11, to supersede the present standard specifications the withdrawal of which was accordingly approved.

These tentative standards will appear in Part I of the *Proceedings*, for 1932 and also in the 1932 Book of A.S.T.M. Tentative Standards.



### Society Appointments and Representatives

Announcement is made of the following appointments:

W. D. Langtry, President, Commercial Testing and Engineering Co., as the Society's representative on the proposed Sectional Committee on Specifications for Clean Bituminous Coal, under the sponsorship of A.I.M.E.

Messrs. Dean Harvey, R. L. Hallett and A. W. Carpenter re-appointed on Committee E-6 on Papers and Publications for the ensuing term of three years.

Messrs. W. H. Fulweiler, H. F. Moore and J. A. Capp re-appointed as members-at-large of Committee E-1 on Methods of Testing for the ensuing term of three years.

Messrs. Cloyd M. Chapman and L. I. Neale re-appointed as members-at-large of Committee E-8 on Nomenclature and Definitions for the ensuing term of three years; also the appointment of G. B. Waterhouse, Professor of Metallurgy, Massachusetts Institute of Technology, to fill the unexpired term of H. P. Tiemann, deceased.

F. O. Clements as the Society's representative on the Division of Engineering and Industrial Research of the National Research Council for the three-year term.



## Personals

News items concerning the activities of our members will be welcomed for inclusion in this column.

JOHN R. BAYLIS, Physical Chemist, City of Chicago, was awarded the John M. Goodell Medal of the American Water Works Association at its fifty-second annual convention. This prize is given to that A.W.W.A. member presenting the best paper on a research topic that is published in the *Journal of the Association*. Mr. Baylis' paper described his important experiments on activated carbon in water.

H. A. GARDNER, Director of The Institute of Paint and Varnish Research, was awarded the honorary degree of Doctor of Science by Lehigh University at the commencement exercises on June 14 in Bethlehem.

MILO S. KETCHUM, Dean, College of Engineering, and Director, Engineering Experiment Station, University of Illinois, was recently honored at a dinner given by the faculty of the College of Engineering of the University of Illinois in recognition of a decade of progress by the College under his guidance.

C. A. ADAMS, Professor of Engineering, Harvard Engineering School, has been chosen Director of the American Bureau of Welding.

WILLIAM A. HAMOR, of the Mellon Institute of Industrial Research, was recipient of the degree of Doctor of Science, awarded by Grove City College, Grove City, Pa.

M. T. LOTHROP, formerly President of the Timken Roller Bearing Co. is now connected with Hills & Dales, Canton, Ohio.

A. M. MUCKENFUSS has severed his connection with Roesler & Hasslacher Chemical Co. to accept the appointment as Acting Professor of Chemistry, University of Florida.

D. J. McADAM, JR., Metallurgist, U. S. Bureau of Standards, was recently awarded the honorary degree of Doctor of Science by Washington and Jefferson College.

P. H. CATHCART is now with Imperial Color Works, Inc., Cleveland, Ohio, having severed his connection with the National Lead Co.

FREDERICK S. WHITE, formerly Research and Consulting Chemist, is now Superintendent, Mantrose Corp., Brooklyn, N. Y.



## Committee on Tin and Arsenic in Tool Steel Disbanded

On recommendation of Committee E-9 on Research, the Executive Committee has authorized the discharge of the Research Committee on Effect of Tin and Arsenic on High-Speed Tool Steel. It was felt by the members of the Research Committee that it had accomplished all in the field assigned to it that now seems possible and due to the recent developments of methods of freeing tungsten from arsenic and tin, the problem no longer has the commercial significance that led to the institution of the project.



## Symposium on Rubber Off Press

The Symposium on Rubber has come off press and members who ordered copies of the book should receive them shortly. It will be recalled that this symposium is made up of the papers and discussions presented at the Cleveland Regional Meeting of the Society. The papers while presented by expert rubber technologists were prepared primarily to include information of value to the engineer and not solely to the rubber expert. The book of 159 pages is bound in blue cloth conforming to *Proceedings* binding. Those who have had an opportunity to examine the publication have commented on the unusual clarity of the printing and the illustrations. This is chiefly due to the use of a special coated paper having a rubber latex content. The price to members is \$1.25.

## New Members to June 28, 1932

The following 39 members were elected from April 28 to June 28, 1932:

### Company Members (6)

Commonwealth & Southern, Corp., J. H. Foote, Supervising Engr., Consumers Power Bldg., Jackson, Mich.  
Ferro Enamel Corp., G. H. McIntyre, Chief Chemist, 4150 E. 56th St., Cleveland, Ohio.  
International Salt Co., Inc., C. D. Looker, Director of Research, Ithaca, N. Y.  
Malleable Iron Research Inst., R. E. Belt, Secretary, 1820 Union Trust Bldg., Cleveland, Ohio.  
Pan American Airways, Inc., H. A. Franchimont, Aircraft Engr., Chanin Bldg., 122 E. 42d St., New York City.  
"Petrol-Office" Inspectors for Oil Products, Oscar Olteneanu, Chemical Engr., Calea Victoriei 29, Bucharest, Rumania.

### Individual and Other Members (32)

Arnstein, Arnold, Chemical Engr., Association of Engineers and Architects, Tel-Aviv, Palestine. For mail: 8 Grouzenberg St.  
Bagsar, A. B., Metallurgist, Sun Oil Co., Marcus Hook, Pa.  
Blanks, R. F., Engr., In Charge of Concrete Tests, U. S. Dept. of the Interior, Bureau of Reclamation, U. S. Custom House, Denver, Colo.  
Brocker, W. L., Branch Manager, W. & T. Avery, Ltd., Toronto, Ont., Canada. For mail: 98 Queen St., East Toronto.  
Colton, G. W., Instructor in Eng. Mechanics, In Charge of Materials Testing Lab., Yale Univ., 51 Prospect St., New Haven, Conn.  
Dahlstrom, F. P., Research Engr., Morgan Constr. Co., 15 Belmont St., Worcester, Mass.  
DeAngelis, P. M., Chemist, Independent Coal Tar Co., Framingham, Mass.  
Dilley, E. S., General Manager, Standard Brake Shoe and Foundry Co., Pine Bluff, Ark.  
Doherty, W. G., Chemist, Bureau of Eng. Testing Lab., New York City, President of the Borough of the Bronx, 181st St. and Webster Ave., Bronx, New York City.  
Emery, F. E., Engr. and Secretary, Eastern Manufacturers Group, Structural Clay Tile Assn., 8 W. 40th St., New York City.  
Evans, F. M., Borough Engr., Boroughs of Glen Rock and Hohokus, 96 Rodney St., Glen Rock, N. J.  
Fahlman, E. G., General Manager, The Permold Co., 6700 Grant Ave., Cleveland, Ohio.  
Frick, W. H., Consulting Structural Engr., 824 Rebecca Ave., Wilkesburg, Pa.  
Hamilton County Commissioners, E. A. Gast, County Surveyor, Room 225, Court House, Cincinnati, Ohio.  
Hansen, Julius, Manager, Lubrication Division, Shell Petroleum Corp., St. Louis, Mo. For mail: 6208 Rosebury Drive.  
Heberton, Craig, 2d, Philadelphia Manager, Dampney Co. of America, Hyde Park, Boston, Mass. For mail: 320 Bourse Bldg., Philadelphia, Pa.  
Hickernell, L. F., Elec. Engr., Anaconda Wire and Cable Co., Hastings-on-Hudson, N. Y.  
Huester, H. J., Materials Engr. (Metals), U. S. Navy, Bureau of Aeronautics, Washington, D. C.  
Indiana State Highway Commission, Department of Materials and Tests, P. D. Miesenhelder, Assistant Chief Engr., In Charge of Materials and Tests, State House Annex, Indianapolis, Ind.  
Kenyon, J. N., Testing Engr., Civil Eng. Testing Labs., Columbia Univ., 435 W. 119th St., New York City.  
Koch, W. H., Works Chemist, Niagara Operations, Mathieson Alkali Works, Inc., Buffalo Ave., Niagara Falls, N. Y.  
Marsh, L. E., Southport, Conn.  
New York State Dept. of Public Works, Division of Eng., Ira Paul, Lab. and Tech. Engr., 353 Broadway, Albany, N. Y.  
Norton, J. T., Associate Professor, Massachusetts Institute of Technology, Cambridge, Mass.  
Stewart, C. R., Manager, Faber Petroleum Inspection Service, San Francisco, Calif. For mail: 848 Thirty-third Ave.  
Tavener, L. J., U. S. Representative, Internat. Tin Committee, Research and Development Section, Room 2810, 149 Broadway, New York City.  
Thompson, G. N., Secretary, Department of Commerce Bldg. Code Committee, U. S. Bureau of Standards, Washington, D. C. For mail: 3717 S St., N. W.  
Turner, C. F., Chief Chemist, East Ohio Gas Co., Cleveland, Ohio. For mail: 225 E. 216th St., Euclid, Ohio.  
von Bergen, Werner, Chief Chemist, Forstmann Woolen Co., Passaic, N. J.  
Wehrenberg, William, Jr., Staff Engr., Butterick Publishing Co., New York City. For mail: 554 Clark St., Westfield, N. J.  
White, W. B., Superintendent, Bureau of Surveys, New York Board of Fire Underwriters, 85 John St., New York City.  
Zinderstein, N. M., Factory Manager, Collins & Aikman Corp., 48 Walley St., Bristol, R. I.

### Junior Member (1)

McVitty, E. W., Assistant to Chief Engr., Pan American Airways, Inc., 122 E. 42d St., New York City.

### George K. Burgess

1874 - 1932

To the list of illustrious members of the Society, who have passed on during recent months, must be added the name of George K. Burgess, Director of the U. S. Bureau of Standards. He was president of the Society in 1923. Doctor Burgess suffered a cerebral hemorrhage in October and succumbed to a recurrent one on July 2.

The list of his accomplishments and important scientific contributions is too extensive to be more than briefly outlined here. He entered the employ of the U. S. Government in 1903 as an assistant physicist and advanced steadily until he became director of the Bureau. An eminent physicist and metallurgist, he did notable work in pyrometry, laying the foundation for the widespread use of high-temperature measurements.

Under his direction hundreds of specifications were issued by the Bureau. The Society and the Bureau are interested in many similar fields of work and their close cooperation is directly traceable to his endeavors. He became a member of the Society in 1915; was a member of the Executive Committee from 1918 to 1920; vice-president during 1920 - 1922 and was chosen president to serve during 1922 - 1923. He was connected with the work of several Society committees. As chairman of the Joint Committee on Investigation of the Effect of Phosphorus and Sulfur in Steel he directed the investigation of the effects of these elements in different grades of steel, which later led to the establishment of suitable limits. This study was of great metallurgical and of greater economic importance.

Doctor Burgess was a member of many national and international bodies and an officer of several. Few men have contributed more to the advancement of science or brought forth so many valuable contributions to our knowledge. The world loses a great scientist; the Society an active member who did much to advance its work.

### Harry N. Van Deusen

1885 - 1932

The sudden passing on May 15 of Harry N. Van Deusen, Materials Engineer, Bell Telephone Laboratories, and member of the Executive Committee, came as a distinct shock to his friends and associates.

Mr. Van Deusen was a graduate electrical engineer of Purdue University in the Class of 1907. He was affiliated with the Bell System for the past twenty-three years. At the time of his death he was Materials Engineer in charge of engineering investigations of materials used in the telephone plant.

His technical activities in the Society work were chiefly in the province of Committee D-9 on Electrical Insulating Materials. For several years he was the chairman of the Subcommittee on Molded Insulating Materials, and at the time of his death headed the Subcommittee on Insulating Papers and Fabrics.

He became a member of the Executive Committee in 1930. As chairman of the newly organized General Membership Committee, he was responsible for interesting many engineers in the work of our Society.

His enthusiasm and wise counsel will be sorely missed, but his earnestness of purpose, his unflagging spirit and intense interest in the Society will for long be an inspiration.

### Forthcoming Society Publications

**Symposium on Steel Castings.**—The papers presented in the Symposium on Steel Castings, held at the recent annual meeting in cooperation with the American Foundrymen's Association, are being reprinted in separate pamphlet form, with discussion. The pamphlet will comprise approximately 250 pages. It is expected that distribution will be made about October 1.

**Supplement to 1931 Year Book.**—This supplement, details concerning which are given in a separate article on page 5, will be ready for distribution about September 10.

**1932 Supplement to the Book of Standards.**—The second supplement to the 1930 Book of A.S.T.M. Standards, containing the 7 standards approved or revised at the recent annual meeting and now out to letter ballot for adoption, will comprise approximately 100 pages. It is now in course of preparation and should be available for distribution about September 1.

**Book of Tentative Standards.**—The special volume containing all of the tentative standards of the Society (220) in their latest revised form is now in preparation. Although the current *Proceedings* contain the new and revised tentative standards, many members find it a convenience to have a compilation of all tentative standards bound in one cover. Each new member as he qualifies is furnished with a copy of this publication. The 1932 book will be available about October 15 and will comprise approximately 1200 pages.

**Combined Index to Standards.**—A combined index of all standards and tentative standards of the Society will again be issued complete with references to the publications in which the standards appear. This index (132 pages) should be available in November and will be distributed to all members and others on request.

**Proceedings.**—The publication of the Proceedings of the recent annual meeting containing committee reports, new and revised standards, technical papers and discussions, will proceed as promptly as possible. It is expected that distribution to members in good standing will be completed the first week in December. The size of Parts I and II of the Proceedings will aggregate approximately 1850 pages.

### NECROLOGY

We announce with regret the death of the following five members and representatives:

JAMES A. BURDEN, President, The Burden Iron Co., Troy, N. Y.

HENRY KLEIN, President and Chairman of the Board of Directors, Henry Klein and Co., Inc., Elmhurst, Long Island, N. Y. He had been a member of the Society since 1928 and was a member of Committee C-5 on Fire Tests of Materials and Construction.

C. M. WALSH, President and General Manager, Falls Hollow Staybolt Co., Cuyahoga Falls, Ohio.

J. D. WARDLE, Chief Engineer, Iowa Railway and Light Corp., Cedar Rapids, Iowa. He had been a member of the Society since 1931.

WILLIAM C. WILHARM, Material and Process Engineer, Westinghouse Electric and Manufacturing Co., East Pittsburgh, Pa. He had been a member of the Society since 1922 and was a member of Committee D-2 on Petroleum Products and Lubricants.

## PROFESSIONAL CARDS

*PROFESSIONAL CARDS will be accepted for inclusion on this page from Consulting Engineers, Metallurgists, Chemists, Testing Engineers and Testing Laboratories.*



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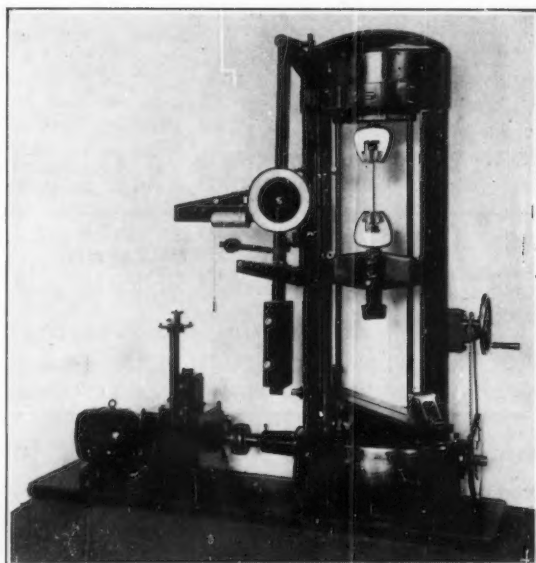
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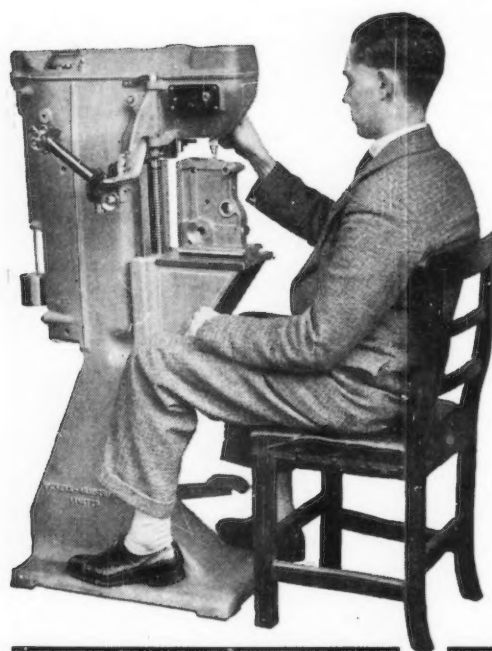
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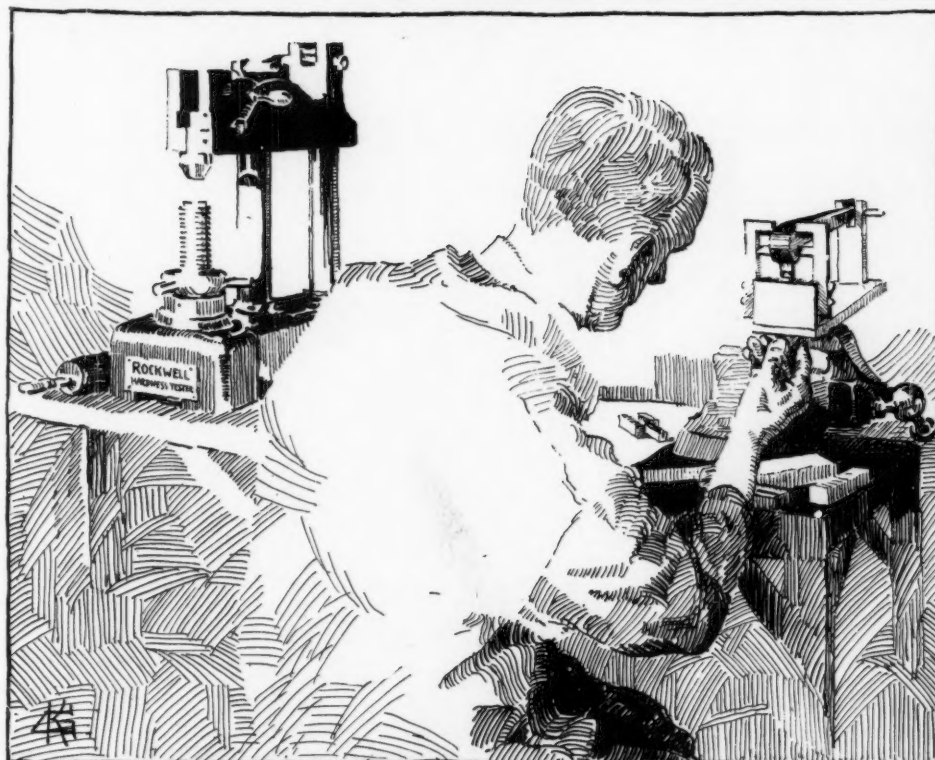
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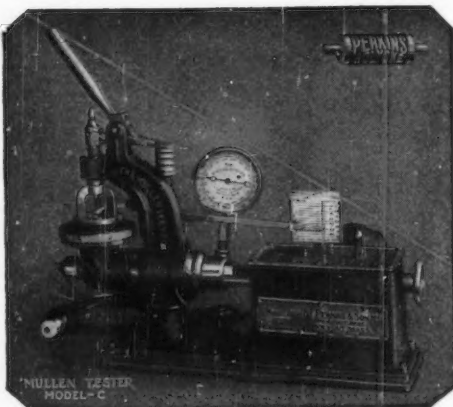
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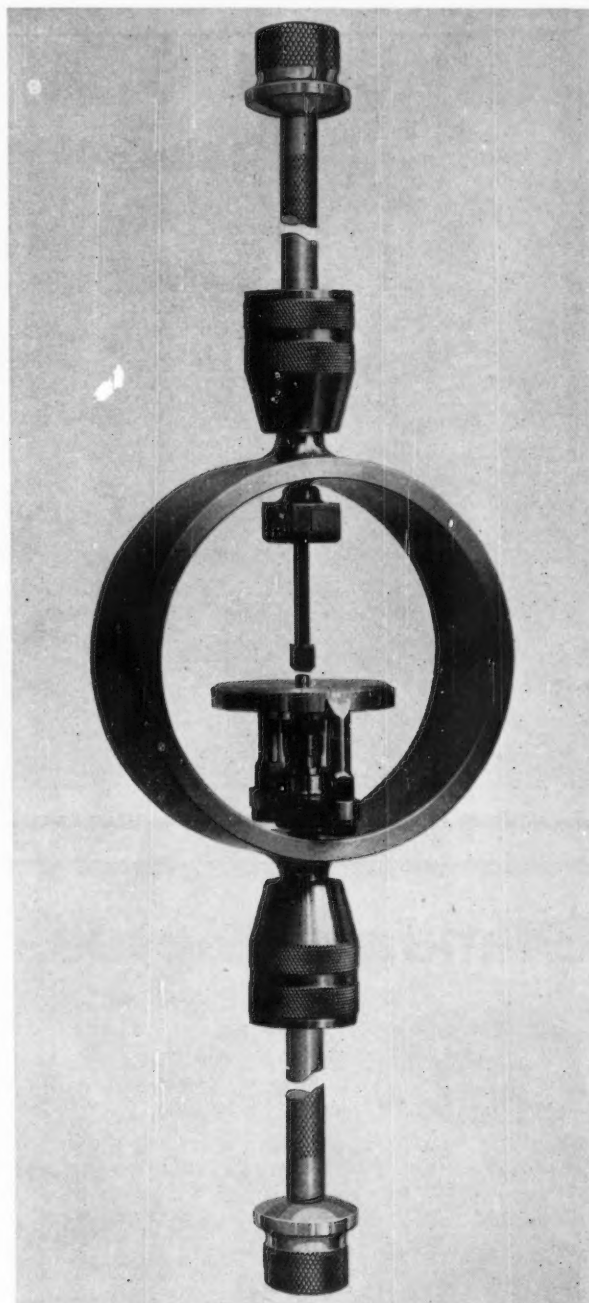
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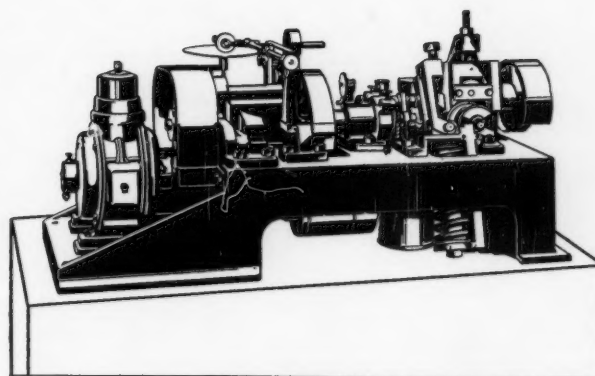
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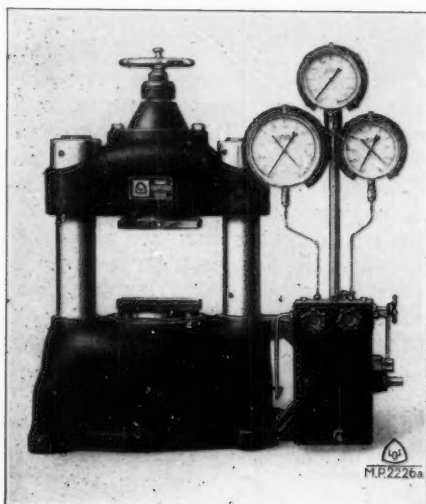
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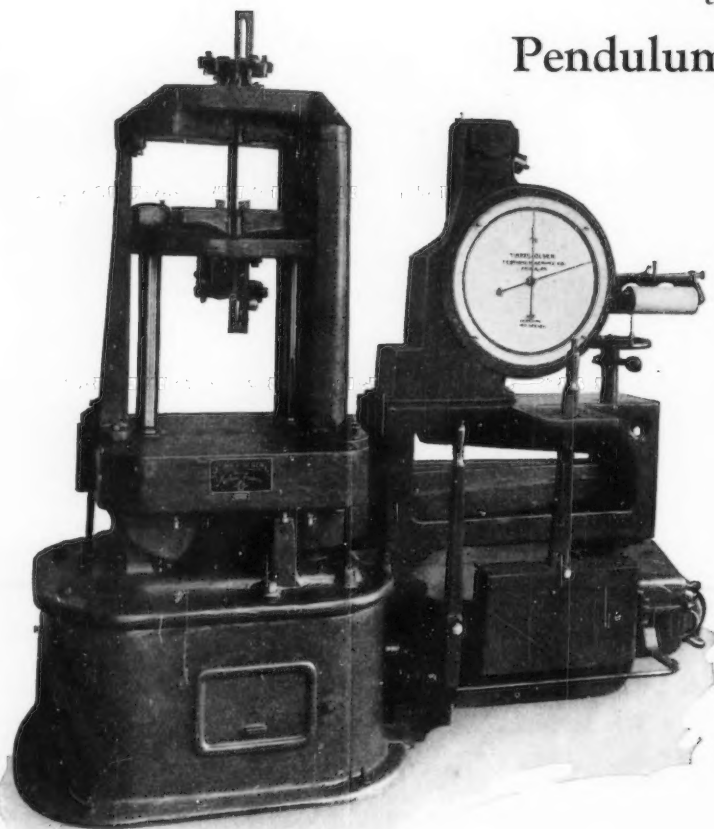
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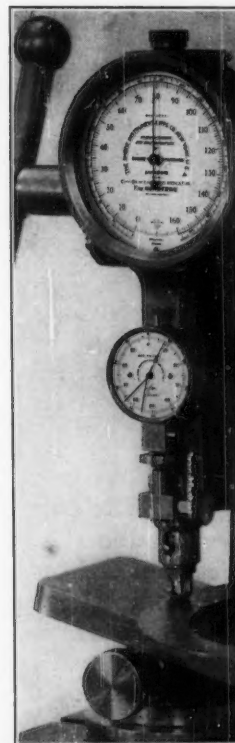
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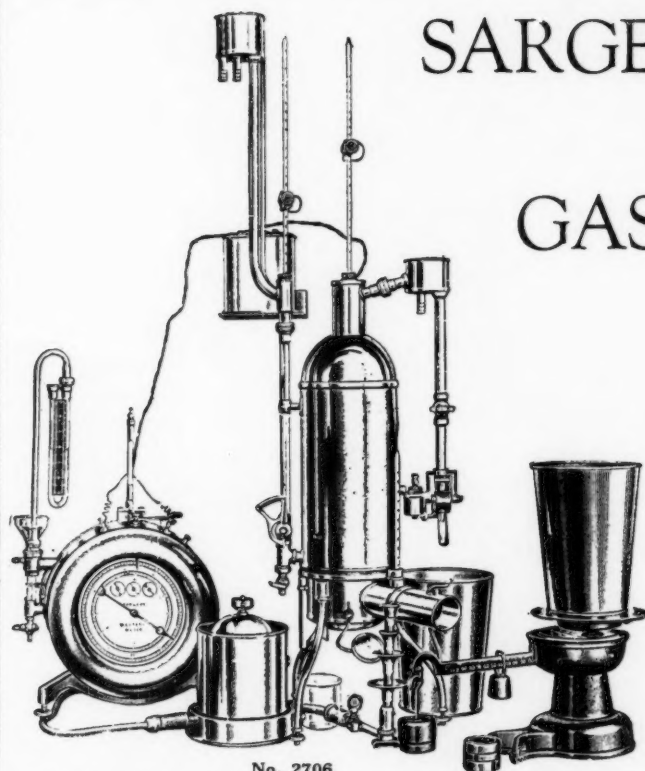
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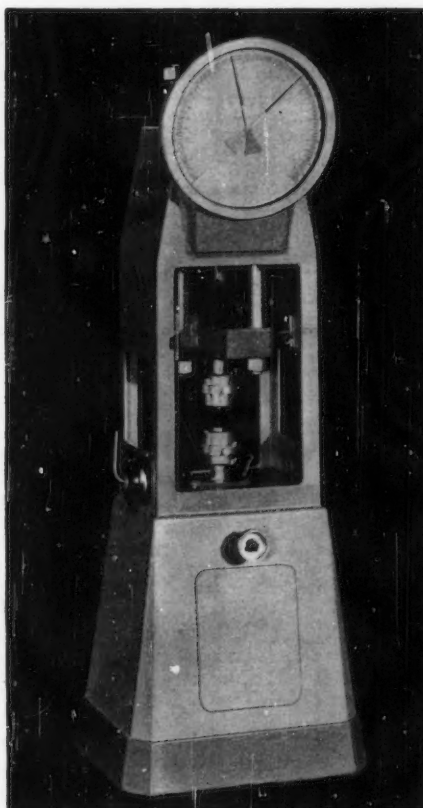
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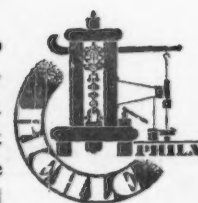
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